

**Fig. 1**

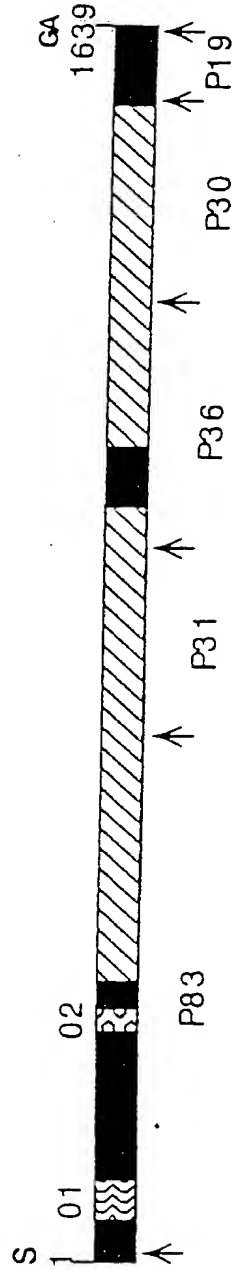
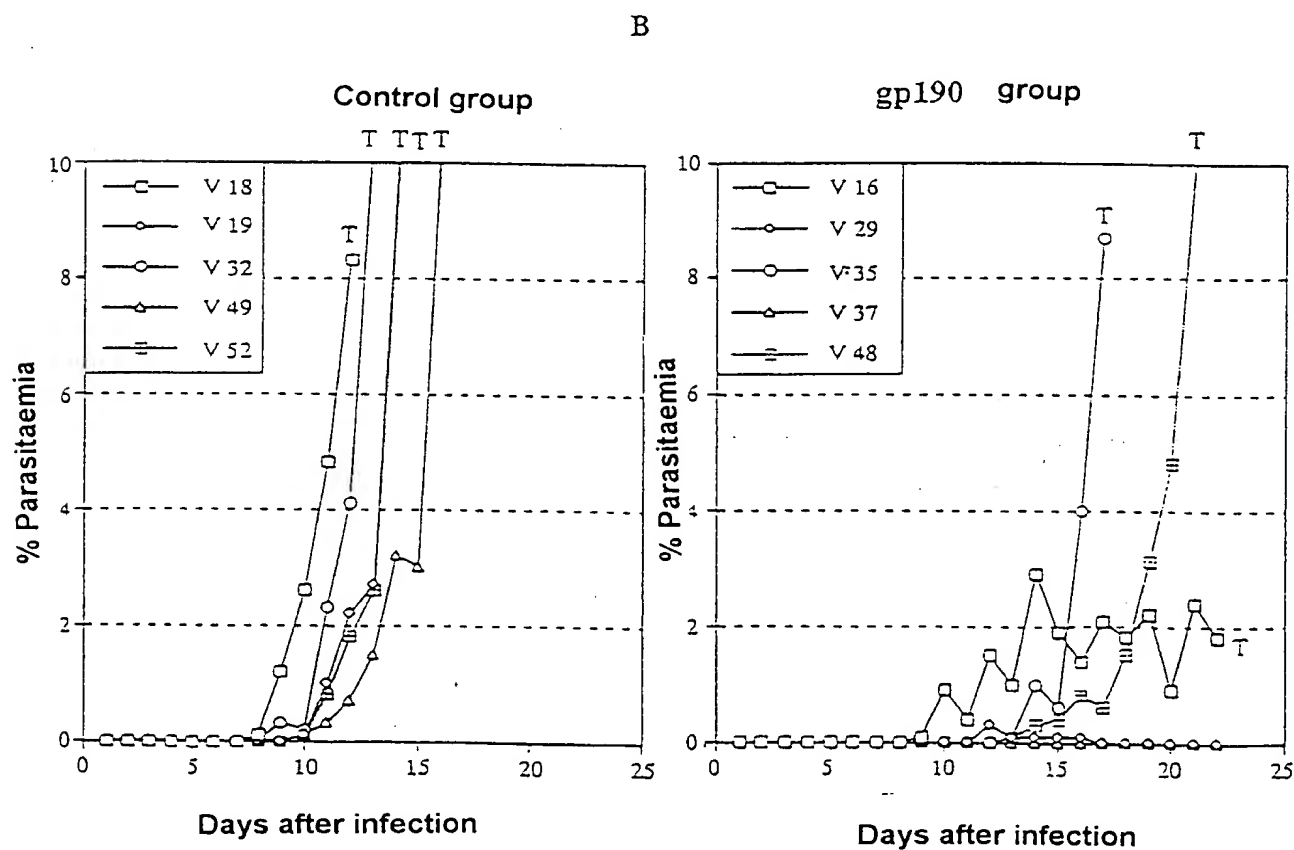
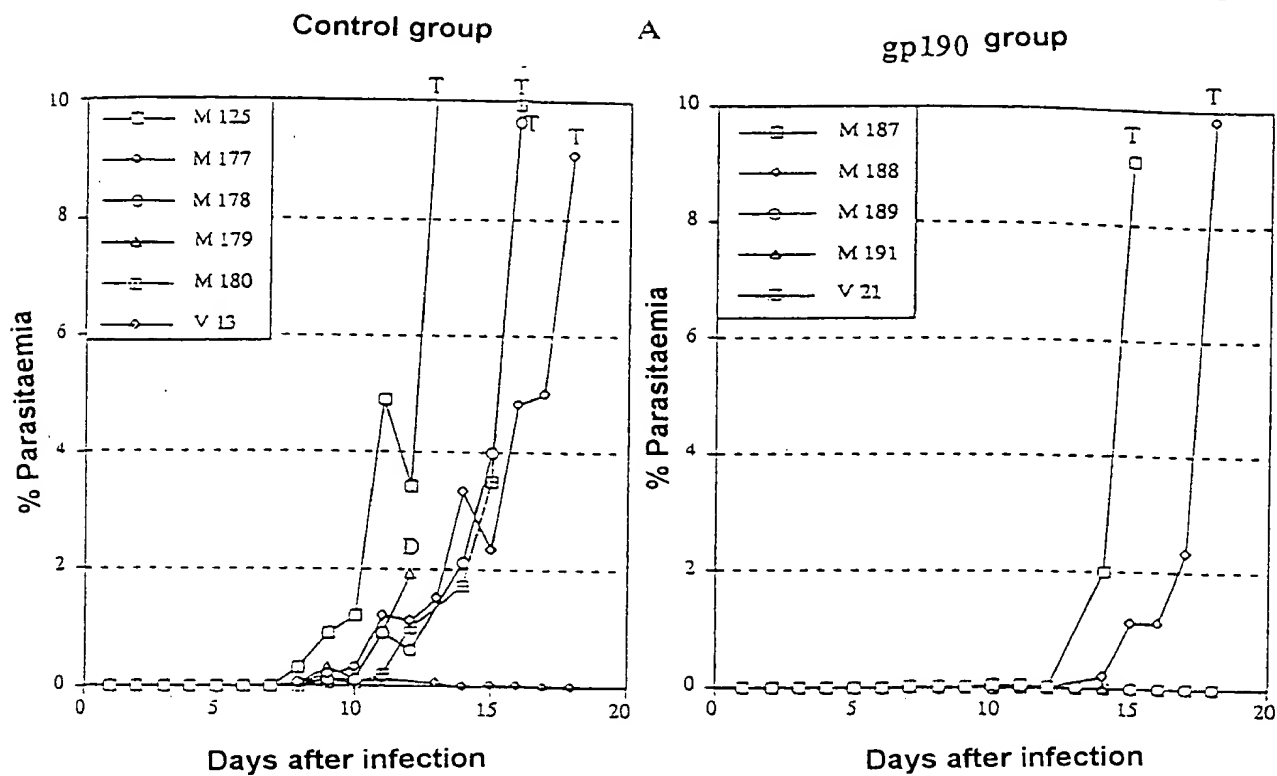
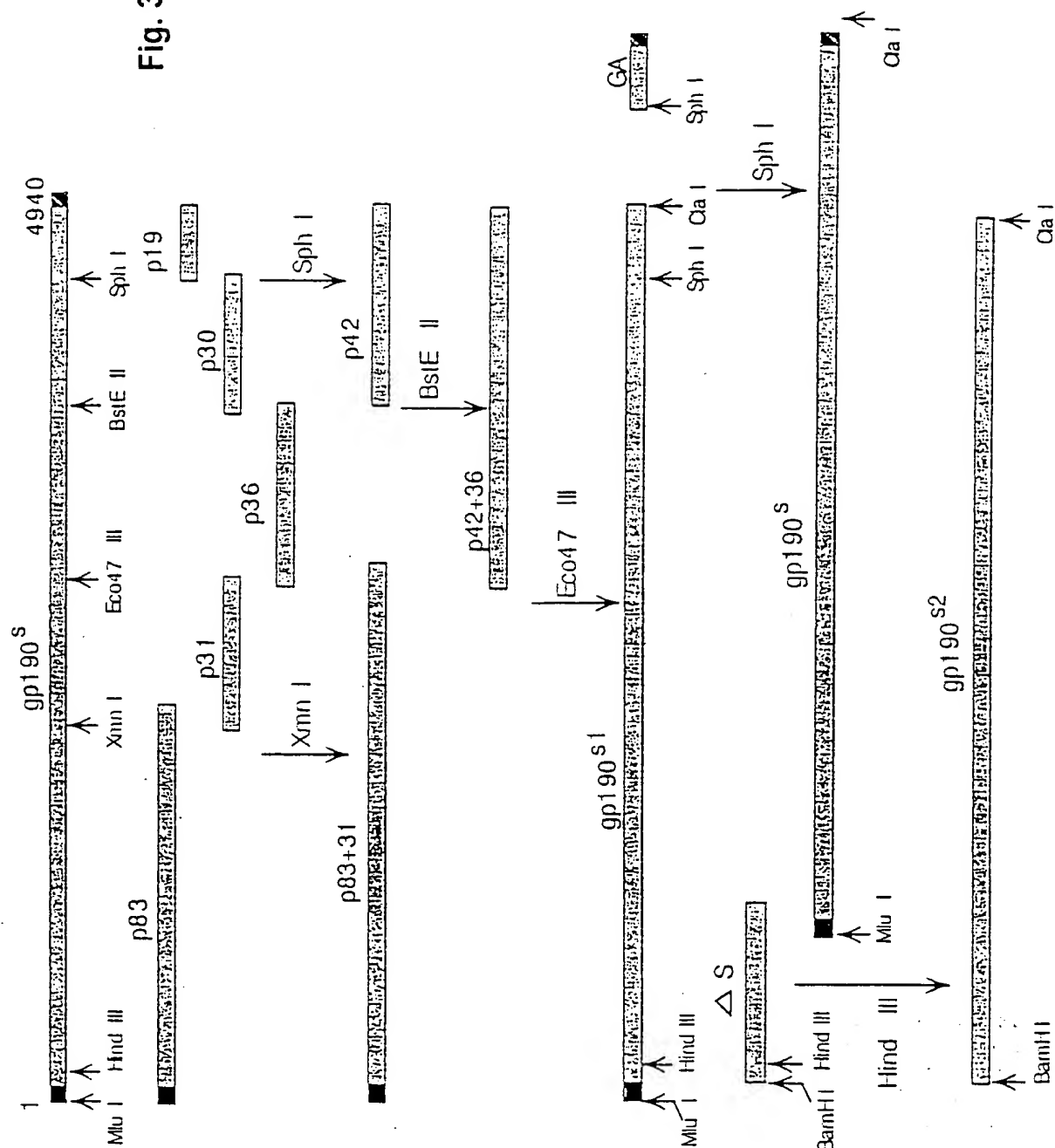


Fig. 2



**Fig. 3A**



**Fig. 3B**

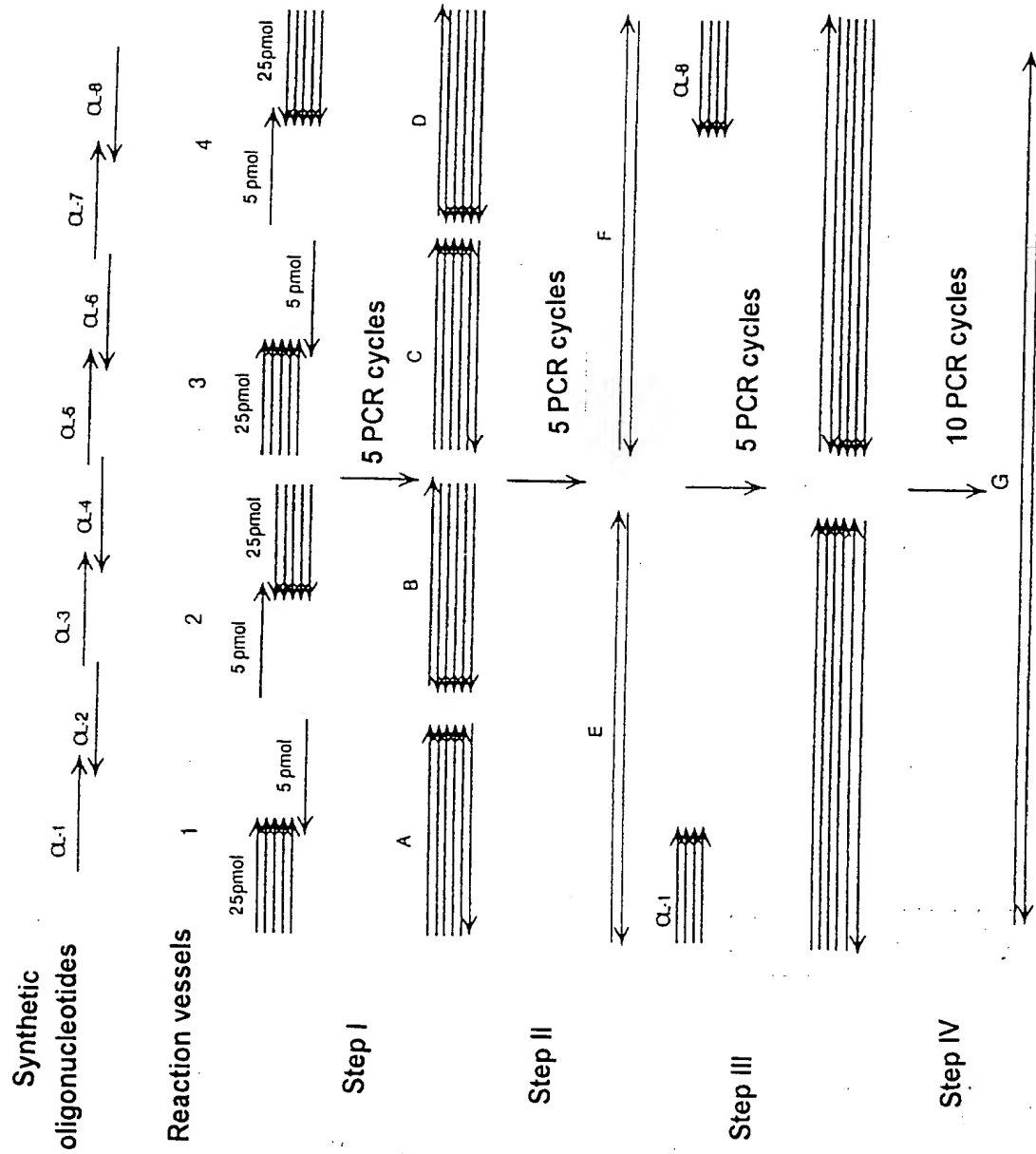


Fig. 3C

5/16

DNA sequence of the native (gp190n) and of the synthetic gene (gp190s) for gp190 from FCG-1

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AS      M K I I F F L C S F L F F I I N T Q C V T H E S Y Q E      27
gp190n G A T T A T A A A T A A T A G T A A
gp190s CCGACGGCTATGAAATCATTTCTCTCTGTTTCATTCTGTTTTTTATCATCAACTACTAGTCCGTGACCCACGAATCCTATCAGGAG      90
      HLU 1

AS      L V K K L E A L E D A V L T G Y S L F Q K E K H V L N E G T      57
gp190n T C A A A A A A T G A T T T A T A A A A T A A A
gp190s CTGGTTAAGAAACTGGAAGCTTTGGAAGATGCCCTTACCGGATACAGCCTGTTCCAGAAGGAGAAGATGGTCTGAATGAAGGGACG      180

AS      S G T A V T T S T P G S K G S V A S G G S G G S V A S G G S      87
gp190n A A T T T T A G T A T T C A T A C A T T A T C A
gp190s AGTGGCAGCGCGCTTACACAGCACACCGGCTTCAAAGGGTCTGTGGCTAGCGGTGGCTCCGGTGGGTCTGTGGGCTCTGGGGGTTCC      270

AS      V A S G G S V A S G G S V A S G G S G N S R R T N P S D N S      117
gp190n T T A T T C A T T T T C A A C T A A T T A T T A
gp190s GTCCGCTCCGGCGGGCAGGCTGGCATCAGGTGGCTCAGTGGCAAGCGGGCTTCCGGGAACAGTCGAAGAAGCAATCCATCTGACAACCTCT      360

AS      S D S D A K S Y A D L K H R V R N Y L L T I K E L K Y P O L      147
gp190n T A T T A T T T A A A A C T C T G T A A A C A T T A C C
gp190s AGCGATTCCGACGCCAAGTCTACGCCGACCTCAAGCAGCGAGTGAGAACTATCTCTCACTATCAAGGAGCTGAAGTACCCACAGTTG      450

AS      F D L T N H M L T L C D N I E G F K Y L I D G Y E E I N E L      177
gp190n T T T A T A A T A T T T A T T A T A T A T A
gp190s TTCGACCTCACEATCATATGCTGACACTGTGTGATAACATTTCATGGCTTCAAATATCTGATTGACGGTTACGAAGAGATCAATGAAGTCT      540

AS      L Y K L N F Y F D L L R A K L N D V C A N D Y C Q I P F N L      207
gp190n T A T A A C T T T T T A T A A T A T A T T T A T C T
gp190s CTGTACAAGTTGAATTTCTACTTCGACTTGGCAAGGGCCAAACTGAATGAGCTTTGCGCCCAATGACTATTGTCAAATTCGATTCAATTTG      630

AS      K I R A N E L D V L K K L V F G Y R K P L D N I K D N V G K      237
gp190n A T C T A T A A C T A A C T A C T G A A A A T A T A T A
gp190s AAGATCAGAGCCCAAGAGTGGAGCTATTGAAGAAGTTGGCTCTCCGATATCCGAAGCCTCTCGACAACTCAAGGACAATGTGGGAAAG      720

AS      M E D Y I K K N K K T I E N I N E L I E E S K K T I D K N K      267
gp190n C A A A A A A T A T A T A T A T A G T G A A T T
gp190s ATGGAAGATTATATTAATAAAGAAATAGAAGACCATCGAGAACATTAACGAGCTGATCGAAGAAATCCAAAAGACCATAGACAAAAATAAG      810

AS      N A T K E E E K K K L Y Q A Q Y D L S I Y N K Q L E E A H N      297
gp190n T A A A A A A A A T A T T T T T C T A T A T A T
gp190s AATGCAACCAAGGAGGAAGAAAGAAAGAGTTGTACCAGGCCCAAGTACGAGCTGTCCATCTATAACAAACAGCTTGAAGAGGCCCATAC      900

AS      L I S V L E K R I D T L K K N E N I K E L L D K I N E I K N      327
gp190n T A A T T A A A A T T T T A A A C T G T A T T A A
gp190s CTCATCAGCCTACTCGGAGAACGCCATAGACACCCCTCAAGAAGAATGAAAAATATCAAAGAACTGCTCGACAAGATTATGAAATTAAGAAT      990

AS      P P P A N S G N T P N T L L D K N K K I E E H E K E I K E I      357
gp190n C A G T A T A A T A T T C T T A A C A A A A A T
gp190s CCTCGCCCAAGCACTCTCGCAACACCCCTAACACGCTGCTGGACAAGAACAGAAGATAGAGGAGCAGGAGAAAGAGATCAAGAGAGATC      1080

AS      A K T I K F N I D S L F T D P L E L E Y Y L R E K N K N I D      387
gp190n T A T T T A G T A A A T A A T A A A A A A T T
gp190s GCCAAAACCAATTAAGTTCAACATAGATTCTCTCTTTACTGATCCGCTTGAGCTGGAGTACTACTTGAGAGAGAAGAATAAGAATATAGAC      1170

AS      I S A K V E T K E S T E P N E Y P N G V T Y P L S Y N D I N      417
gp190n A A G T A G T A T C A A C C A A C C T A A T G A A T A T C C A A T G G T G T G A C G T A C C T C T G T T A T A A C G A T A T C A A C
gp190s ATCTCGCCCAAGTTCGAGACAAAGGAATCAACCGAACCTAATGAATATCCCAATGGTGTGACGTACCCCTCTGTCTTATAACGATATCAAC      1260

AS      N A L N E L N S F G D L I N P F D Y T K E P S K N I Y T D N      447
gp190n T T A T A T T C T T T A T A T A T A A A A C A C A T T T
gp190s AACGCTCTCAACGAGCTCAATAGCTTCGGTGACTTGACTAACCCGCTTCGATTATACGAAAGAACCCTCTAAGAATATCTACACAGACAAT      1350

AS      E R K K F I N E I K E K I K I E S D K K S Y E D R      477
gp190n A A A C A T T A A T A A A A A A T C T A T C
gp190s GAGAGAAAGAACTTTATCAACGAATCAAGGAGAGATCAAAATTCAGAAGAAGAAATTCAGAGTGACAAAGAAAGTTACGAAGACCCG      1440

AS      S K S L N D I T K E Y E K L L N E I Y D S K F N N N I D L T      507
gp190n T C T G T C T A A A A A A T A T T A T A G T A T T A T
gp190s AGCAAAAGTCTAAACGATATCACTAAAGAGTATGAAAGCTGCTGAACGAGATCTATGATTCCAAATTCACAAATACATCGACCTGACC      1530

AS      N F E K M M C K R Y S Y K V E K L T H E N T F A S Y E N S K      537
gp190n T A A T A T T T T A T A T A T A T A T A
gp190s AACTTCGAGAAAATGATGGGAAAAGGCTACTCTTCAAAAGTGGAGAAATGACACACCATAATACCTTTGCATCCTATGAGAAATCTAAG      1620

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09/269874-000000

[illegible]

stop codon' Cla 1.

Fig. 3D

8 / 16

	N'-terminus	C'-terminus
gp190s1 Sequence		
DNA Sequence	GCACGCGTATGAAATC	AGCTCTAATTAAATAGGCGGCCGCATCGATGGC
AA Sequence	Mlu I Met Lys Ile	Ser Ser Asn stop codon Not I Cla I
AA Position	1 2 3	1619 1620 1621
gp190s2 Sequence		
DNA Sequence	GC GGATCCGTGACCCAC	AGCTCTAATTAAATAGGCGGCCGCATCGATGGC
AA Sequence	BamHI Val Thr His	Ser Ser Asn stop codon Not I Cla I
AA Position	20 21 22	1619 1620 1621



Fig. 4A

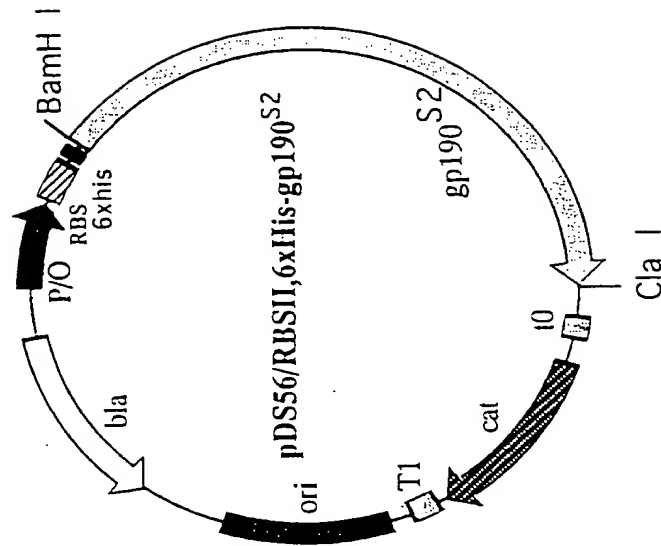


Fig. 4B

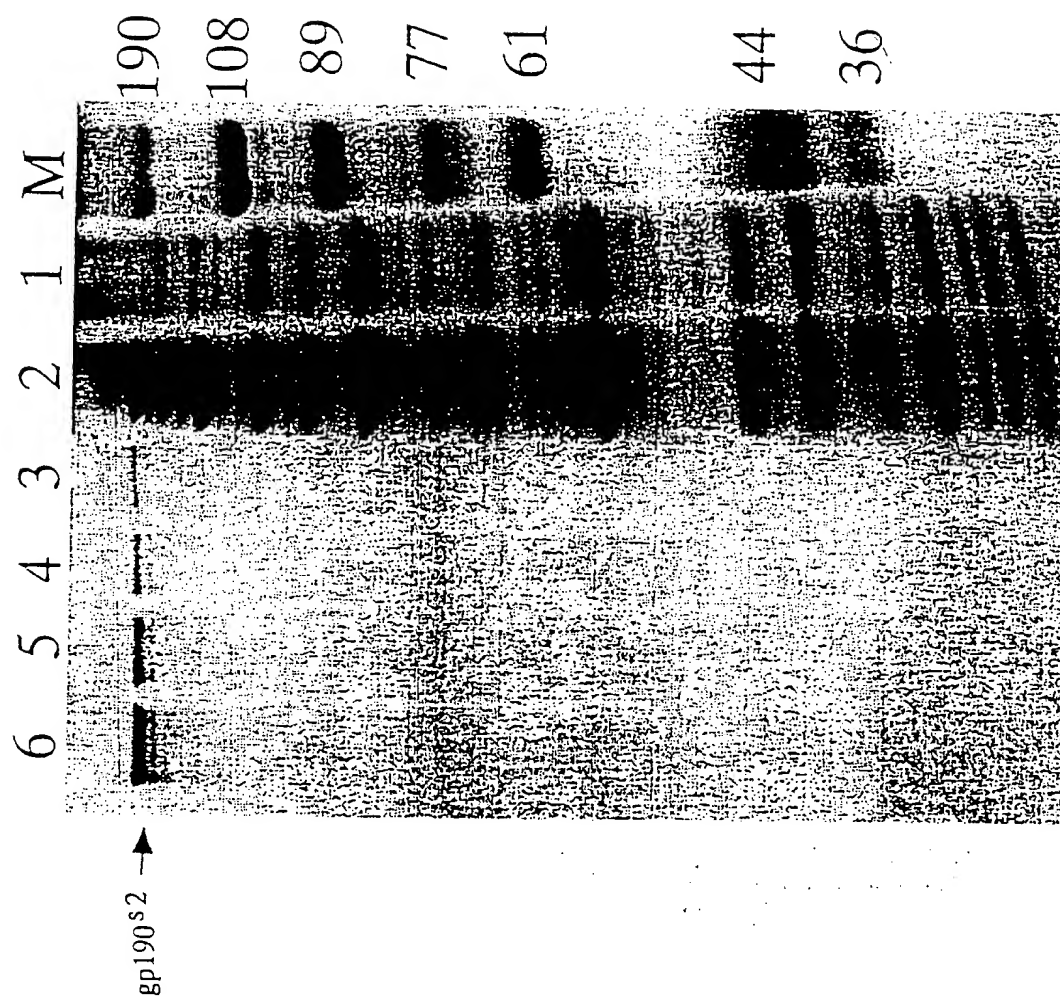


Fig. 5A

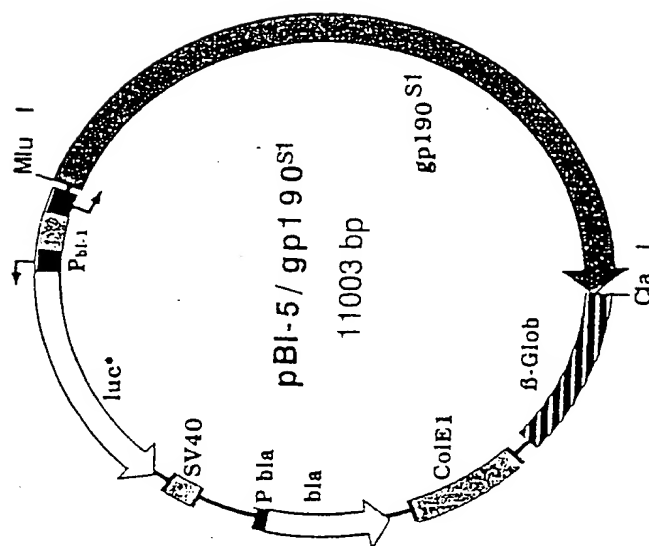


Fig. 5B

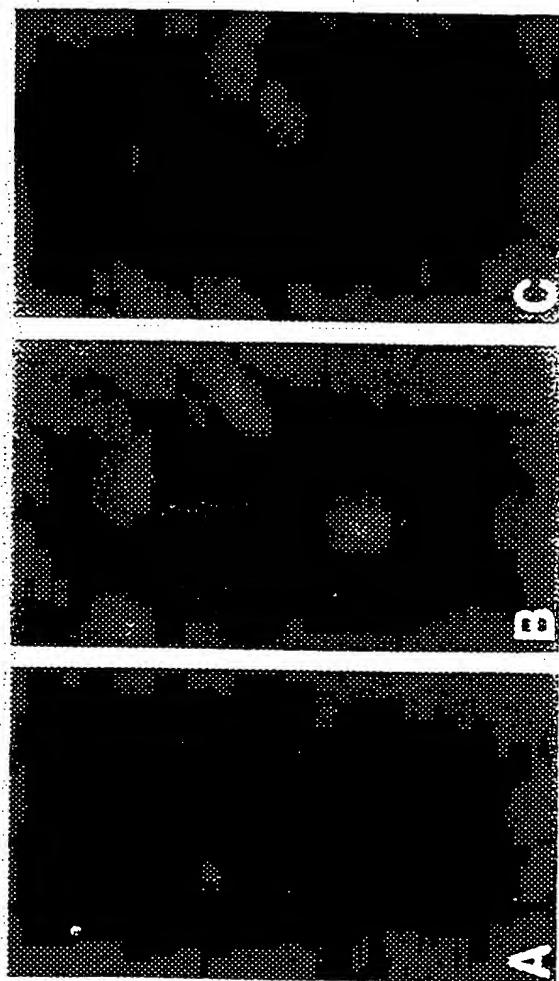


Fig. 5C

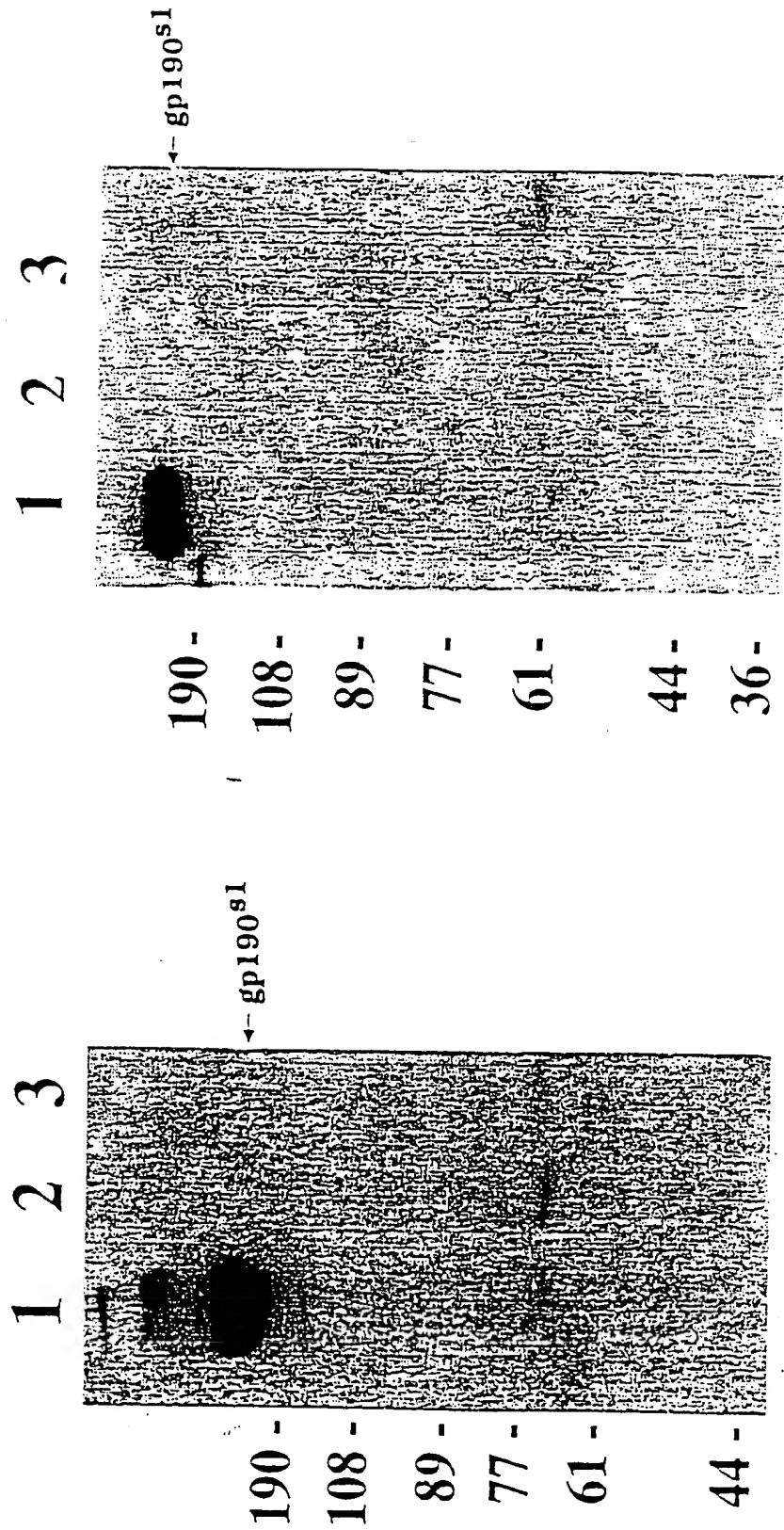


Fig. 6A

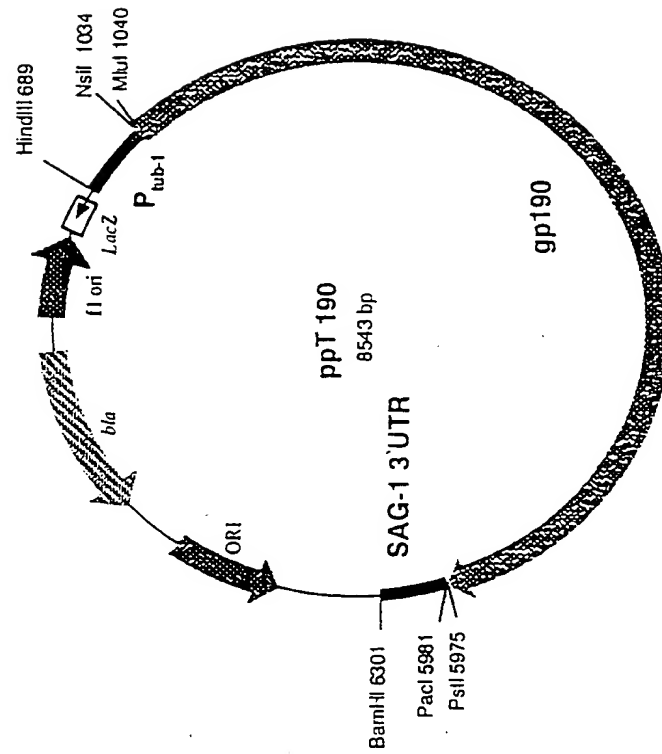
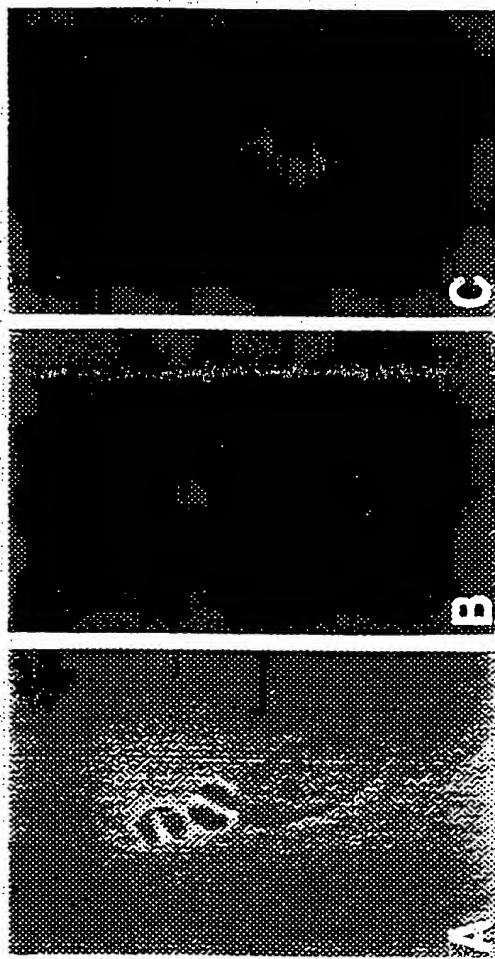


Fig. 6B



0 662000 42869260 0

1 2 3



Fig. 6c

190-  
108-  
89-  
77-  
61-